Category	Model Year	Manufacturer	Fuel		US DOE - vehicles-2022-01-25 Alternative Fuel Economy Highway Alternative Fuel Economy Combined Conventional Fuel Economy City Conventional Fuel Economy Highway Conventional Fuel Economy Combined Transmission T
	All American RE Electric	Blue Bird	Electric	All Electric hange Alternative I del Economy Oity	Atternative rule Economy riighway Atternative rule Economy Conventional rule Economy Convention Rule Rule Rule Rule Rule Rule Rule Rule
	All American RE Electric Activity	Blue Bird	Electric		Automatic
	Micro Bird Activity G5 Electric Micro Bird G5 Electric	Blue Bird Blue Bird	Electric Electric		
	Vision Electric	Blue Bird	Electric		Automatic
Passenger Van/Shuttle Bus		Blue Bird	Electric		Automatic
Passenger Van/Shuttle Bus		BYD	Electric		
	30' Electric transit 35' Double Decker Electric Bus	BYD	Electric Electric		
Passenger Van/Shuttle Bus		BYD	Electric		
Transit Bus	35' Electric Transit	BYD	Electric		
Passenger Van/Shuttle Bus		BYD	Electric		
		BYD	Electric Electric		
Passenger Van/Shuttle Bus		BYD	Electric		
Transit Bus	60' Electric Transit	BYD	Electric		
Vocational/Cab Chassis		BYD	Electric		
	6R 8R	BYD	Electric Electric		
	8TT Day Cab	BYD	Electric		Automatic
	8Y Terminal Tractor	BYD	Electric		
	V8100 Panel Van	Chanje COBUS Industries	Electric Electric		
Transit Bus Transit Bus	e.COBUS 2700 e.COBUS 2700S	COBUS Industries	Electric		
	e.COBUS 3000	COBUS Industries	Electric		
	Type A Electric School Bus (DE516)	Collins Bus Corp.	Electric		
School Bus Transit Bus	Type A Electric School Bus (DE516WF) AXESS-FC 35'	Collins Bus Corp. ENC	Electric Hydrogen Fuel Cell		
	AXESS-FC 40'	ENC	Hydrogen Fuel Cell		
Vocational/Cab Chassis	E-450 Box Truck	Ford	Electric		
Vocational/Cab Chassis		Ford	Electric		
School Bus Passenger Van/Shuttle Bus	E-450 School Bus	Ford Ford	Electric Electric		
Step Van		Ford	Electric		
Vocational/Cab Chassis	E450 Stripped Chassis	Ford	Electric		
Vocational/Cab Chassis	E-450 Work Truck	Ford	Electric		
Passenger Van/Shuttle Bus School Bus	F-550 Bus F-59 School Bus	Ford Ford	Electric Electric		
Passenger Van/Shuttle Bus		Ford	Electric		
Step Van	F-59 Step Van	Ford	Electric		
Vocational/Cab Chassis	F-59 Stripped Chassis	Ford	Electric		
Vocational/Cab Chassis Van	F-650 Box Truck Transit 250/350 Cargo Van	Ford Ford	Electric Electric		Automatic Control of the Control o
		Ford	Electric		
Vocational/Cab Chassis	Transit CC-CA 250, 350	Ford	Electric		
Transit Bus	Low Floor Plus M3EV	Gillig	Electric Electric		
Street Sweeper Street Sweeper	M4EV	Global	Electric		
	M4HSDZE Hydrogen	Global	Hydrogen Fuel Cell		
	M4ZE Hydrogen	Global	Hydrogen Fuel Cell		
Passenger Van/Shuttle Bus School Bus	AV Star BEAST	GreenPower Motor Company GreenPower Motor Company			
	EV250	GreenPower Motor Company			
Transit Bus	EV350	GreenPower Motor Company	Electric		
	EV550	GreenPower Motor Company			
Passenger Van/Shuttle Bus Passenger Van/Shuttle Bus		GreenPower Motor Company GreenPower Motor Company			
	EV Star Cargo	GreenPower Motor Company			
VanVocational/Cab Chassis	EV Star Cargo+	GreenPower Motor Company	Electric		
	EV Star CC	GreenPower Motor Company			
Passenger Van/Shuttle Bus Transit Bus	Mainstreet	Hometown Trolley Hometown Trolley	Electric Electric		
	Streetcar	Hometown Trolley	Electric		
	Urban	Hometown Trolley	Electric		
Transit Bus Passenger Van/Shuttle Bus	Villager	Hometown Trolley Hometown Trolley	Electric Electric		
	Ottawa T2E	Kalmar	Electric		
Vocational/Cab Chassis	LION6	Lion Electric	Electric		Automatic
Refuse	LION8	Lion Electric	Electric		Automatic
Vocational/Cab Chassis Tractor	LION8	Lion Electric Lion Electric	Electric Electric		Automatic Automatic
	LIONA	Lion Electric	Electric		Automatic
	LIONC	Lion Electric	Electric		Automatic
	LIOND	Lion Electric	Electric		Automatic Automatic
Passenger Van/Shuttle Bus Refuse	LR	Lion Electric Mack	Electric Electric		Automatic
	D45 CRT LE CHARGE	MCI	Electric		Automatic
Transit Bus	J4500e CHARGE	MCI	Electric		Automatic
	eSprinter Xcelsior CHARGE 35'	Mercedez-Benz New Flyer	Electric Electric		
	Xcelsior CHARGE 40'	New Flyer	Electric		
	Xcelsior CHARGE 60'	New Flyer	Electric		
	Xcelsior CHARGE H2 40' Xcelsior CHARGE H2 60'	New Flyer	Hydrogen Fuel Cell		
	LFSe	New Flyer Nova Bus	Hydrogen Fuel Cell Electric		
	LFSe+	Nova Bus	Electric		
Tractor	T Series terminal	Orange EV	Electric		
Vocational/Cab Chassis Vocational/Cab Chassis	220EV - Class 6 220EV - Class 7	Peterbilt Peterbilt	Electric Electric		Automatic Automatic
	520EV - Class 7	Peterbilt	Electric		Automatic Automatic
Tractor	579EV	Peterbilt	Electric		Automatic
	ZX5 35-Foot Bus	Proterra	Electric		
	ZX5+ 35-Foot Bus ZX5 40-Foot Bus	Proterra Proterra	Electric Electric		
	ZX5+ 40-Foot Bus	Proterra	Electric		
	ZX5MAX 40-Foot Bus	Proterra	Electric		
Passenger Van/Shuttle Bus		Starcraft	Electric		
School Bus School Bus	E-Quest XL	Starcraft Starcraft	Electric Electric		
	Saf-T-Liner C2 Jouley	Thomas Built	Electric		Automatic
Passenger Van/Shuttle Bus		Turtle Top	Electric		
	eCargo eTruck drayage	US Hybrid US Hybrid	Electric		
	Н2Cargo	US Hybrid US Hybrid		ic Hydrogen Fuel Cell	
Passenger Van/Shuttle Bus		US Hybrid		ic Hydrogen Fuel Cell	
Passenger Van/Shuttle Bus		US Hybrid		Plug-in Hybrid Electric	
	H2Truck CX45E	US Hybrid Van Hool	Plug-in Hybrid Electr	ic Hydrogen Fuel Cell	
	VNR Electric	Van Hool Volvo	Electric		
	C-Series	Workhorse	Electric		Automatic

Transmission make Linguic type Linguic	e Size Engine Cylinder Count Number of Passengers	Heavy-Duty Power System	Notes
		4 Cummins PowerDrive 7000 EV	According to manufacturer: 160 kWh battery; up to 120 miles range
	30	Cummins PowerDrive 7000 EV	According to manufacturer: 160 kWh battery; up to 120 miles range According to manufacturer: 88 kWh battery; up to 100 miles range
	30		According to manufacturer: 88 kWh battery; up to 100 miles range
	77	7 Cummins PowerDrive 7000 EV	According to manufacturer: 160 kWh battery; up to 120 miles range
2005		7 Cummins PowerDrive 7000 EV	According to manufacturer: 160 kWh battery; up to 120 miles range
SYD SYD		BYD 110 kWx2 in-wheel motor BYD 90 kWx2 in-wheel motor	According to manufacturer: 141kWh battery; up to 141 miles range According to manufacturer: 215kWh battery; up to 196 miles range
SYD		2 BYD 180 kWx2 in-wheel motor	According to manufacturer: 313kWh battery; up to 125 miles range
YD	41	1 BYD 180 kWx2 in-wheel motor	According to manufacturer: 313kWh battery; up to 200 miles range
SYD		BYD 100 kWx2 in-wheel motor	According to manufacturer: 266kWh battery; up to 157 miles range
BYD		BYD 180 kWx2 in-wheel motor	According to manufacturer: 352kWh battery; up to 186 miles range
BYD BYD		2 BYD 180 kWx2 in-wheel motor 7 BYD 180 kWx2 in-wheel motor	According to manufacturer: 352kWh battery; up to 160 miles range According to manufacturer: 446kWh battery; up to 159 miles range
SYD		7 BYD 180 kWx2 in-wheel motor	According to manufacturer: 446kWh battery; up to 172 miles range
BYD	56	BYD 180 kWx2 in-wheel motor	According to manufacturer: 578kWh battery; up to 208 miles range
BYD			According to manufacturer: 26,000 lbs GVWR; 335 HP; 1,328 lb-ft torque
SYD SYD			According to manufacturer: 26,000 lbs GVWR; 335 HP; 1,328 lb-ft torque According to manufacturer: 66,000 lbs GVWR; 402 HP; 812 lb-ft torque
SYD SYD			According to manufacturer: 105,000 lbs GCWR; 483 HP; 1,770 lb-ft torque
YD			According to manufacturer: 102,000 lbs GCWR; 241 HP; 1,106 lb-ft torque
		Chanje Synchronous permanent magnet dual motor system	
		Siemens ELFA Electric Drive System	According to manufacturer: Lithium-titanate batteries; 1-2 hours for full battery charge
		7 Siemens ELFA Electric Drive System D Siemens ELFA Electric Drive System	According to manufacturer: Lithium-titanate batteries; 1-2 hours for full battery charge According to manufacturer: Lithium-titanate batteries; 1-2 hours for full battery charge
		4 Motiv Power Systems 295kW electric motor	Based on the Ford E-450 chassis. Electric power train developed and installed by Motiv Power Systems, a Ford-approved qualified vehicle modifier (QVM). According to Manufacturer: BMW lithium-ion i3 127kWh passer
	16 + 1 wheelchair	Motiv Power Systems 295kW electric motor	Based on the Ford E-450 chassis. Electric power train developed and installed by Motiv Power Systems, a Ford-approved qualified vehicle modifier (QVM). According to Manufacturer: BMW lithium-ion i3 127kWh passen
AE	35		
BAE	43	3	
			Based on the Ford E-450 Cutaway Chassis. This vehicle is available with an electric power train developed and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford. This vehicle is available with an electric power train developed and installed by an approved qualified vehicle modifier (QVM). It is available for delivery through select Ford dealerships, without impacting OEM warranties of
			Based on the Ford E-450 Cutaway Chassis. This vehicle is available with an electric power train developed and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford of the Ford E-450 Cutaway Chassis. This vehicle is available with an electric power train developed and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford of the Ford E-450 Cutaway Chassis.
			Based on the Ford E-450 Cutaway Chassis. This vehicle is available with an electric power train developed and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford
			Based on the Ford E-450 Cutaway Chassis. This vehicle is available with an electric power train developed and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford
			This vehicle is available with an electric power train developed and installed by an approved qualified vehicle modifier (QVM). It is available for delivery through select Ford dealerships, without impacting OEM warranties of the Ford Ford Ford Ford Ford Ford Ford Ford
			Based on the Ford E-450 Cutaway Chassis. This vehicle is available with an electric power train developed and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford on the Ford F-550 Cutaway Chassis. This vehicle is available with an electric power train developed and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford of the Ford F-550 Cutaway Chassis. This vehicle is available with an electric power train developed and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford of the Ford F-550 Cutaway Chassis.
			Based on the Ford F-550 Cutaway Chassis. This vehicle is available with an electric power train developed and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford dealer for delivery through select Ford delivery through select Fo
			Based on the Ford F-59 stripped chassis. This vehicle is available with an electric power train developed and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford dealers are the second and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford dealers are the second and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford dealers are the second and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford dealers are the second and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford dealers are the second and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford dealers are the second and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford dealers are the second and installed by a Ford-approved qualified vehicle modifier (QVM).
			Based on the Ford F-59 stripped chassis. This vehicle is available with an electric power train developed and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford dea
			This vehicle is available with an electric power train developed and installed by a Ford-approved qualified vehicle modifier (QVM). It is available for delivery through select Ford dealerships, without impacting OEM warranties.
			Based on the Ford F-650 cab/chassis. This vehicle is available with an electric power train developed and installed by an approved qualified vehicle modifier (QVM). It is available for delivery through select Ford dealerships with an electric power train developed and installed by an approved qualified vehicle modifier (QVM). It is available for delivery through select Ford dealerships without impacting QFM warranties of the control of t
			This vehicle is available with an electric power train developed and installed by an approved qualified vehicle modifier (QVM). It is available for delivery through select Ford dealerships, without impacting OEM warranties of This vehicle is available with an electric power train developed and installed by an approved qualified vehicle modifier (QVM). It is available for delivery through select Ford dealerships, without impacting OEM warranties of the control of the
			This vehicle is available with an electric power train developed and installed by an approved qualified vehicle modifier (QVM). It is available for delivery through select Ford dealerships, without impacting OEM warranties or
		Cummins PowerDrive 7000 EV	According to manufacturer: Available in 29', 35', and 40' lengths. 444 kWh battery and estimated 150 miles range.
Global			According to manufacturer: Available with 120kW, 160kW, or 200kW electric motor; up to 11 hours operation per charge
Global		US Hybrid AC Induction with Integrated Gear Reduction 120kW electric motor	According to manufacturer: Available with 120kW, 160kW, or 200kW electric motor; up to 11 hours operation per charge
Global			
	Up to 21	Dana TM4 150kW	According to manufacturer: ADA wheelchair lift; 118kWh battery; up to 150 miles range
	90	Dana TM4 150kW	According to manufacturer: 194kWh battery; up to 150 miles range
	21 + 2 wheelchair	Prestolite 160kW electric motor	According to manufacturer: 260kWh battery; 140 miles range
	40 + 2 wheelchair	Prestolite 350kW electric motor	According to manufacturer: Up to 400kWh battery; 200+ miles range
	Up to 99 Up to 21	Siemens electric motor Dana TM4 150kW	According to manufacturer: Up to 600kWh battery; 175+ miles range According to manufacturer: 118kWh battery; up to 150 miles range
	·	4 Dana TM4 150kW	According to manufacturer: 118kWh battery; up to 150 miles range According to manufacturer: 118kWh battery; up to 150 miles range
		Dana TM4 150kW	According to manufacturer: GVWR 14,330 lbs; 118kWh battery; up to 150 miles range
		Dana TM4 150kW	Box van based on chassis/cab. According to manufacturer: GVWR 14,330 lbs; 118kWh battery; up to 150 miles range
		Dana TM4 150kW	According to manufacturer: GVWR 14,330 lbs; 118kWh battery; up to 150 miles range
	42		According to manufacturer: 120-200 miles range.
	40		According to manufacturer: 120-200 miles range. According to manufacturer: 120-200 miles range
	40		According to manufacturer: 120-200 miles range
	45	5	According to manufacturer: 120-200 miles range.
	45		According to manufacturer: 120-200 miles range.
		Kalmar 170 kW Electric Drive Motor	According to manufacturer: 81,000 GCWR; 136 kWh, 172 kWh or 220 kWh battery storage
		Dana TM4 SUMO MD Dana TM4 SUMO HD	According to manufacturer: Up to 252 kWh battery; up to 180 miles range According to manufacturer: 350 kW (470 HP) motor: Up to 252 kWh battery. Up to 130 mile range
		Dana TM4 SUMO HD Dana TM4 SUMO HD	According to manufacturer: 350 kW (470 HP) motor; Up to 252 kWh battery. Up to 130 mile range. According to manufacturer: 350 kW (470 HP) motor; up to 336 kWh battery; up to 170 miles range
			According to manufacturer: Up to 653 kW motor; up to 588 kWh battery; up to 260 miles range
	24	Dana TM4 SUMO MD	According to manufacturer: 160 kW (215 HP) motor; 80 kWh or 160 kWh battery; up to 150 miles range
		7 Dana TM4 SUMO MD	According to manufacturer: Up to 250 kW (335 HP) electric motor; Up to 210 kWh battery; 100-155 miles range
		Dana TM4 SUMO MD	According to manufacturer: 250 kW (335 HP) motor; up to 220 kWh battery; up to 155 miles range
Mack Powershift 2-speed	31	1 Dana TM4 SUMO MD	According to manufacturer: 160 kW (215 HP) motor; 80 kWh or 160 kWh battery; up to 150 miles range According to manufacturer: 2 AC motors with 400kW (536 hp) total peak power at rear wheel; 4 NMC lithium-ion batteries, 600V with fast charge capability
5.15.6.mt 2	54	4 Siemens 260kW electric motor	According to manufacturer: 2 AC motors with 400kW (336 np) total peak power at rear wheel, 4 NMC lithium-ion batteries, 600V with last charge capability According to manufacturer: Siemens 260kW electric motor and 63Ah (up to 389kWh) NMC battery; up to 170 miles range
		Siemens 260kW electric motor	According to manufacturer: Siemens 260kW electric motor and 63Ah (up to 544kWh) NMC battery; up to 240 miles range
		Mercedez-Benz 85kW electric motor	According to manufacturer: Available with 35kWh or 47kWh battery
iemens		Siemens ELFA3 Electric Drive System 160kW	According to manufacturer: 350kWh or 440kWh battery storage; 179-220 miles range
		Siemens ELFA3 Electric Drive System 180kW	According to manufacturer: 350-525kWh battery storage; 174-251 miles range According to manufacturer: Available with ZF AVE130 In-wheel motor center drive axle: 525kWh battery storage; 153 miles range
		1 Siemens ELFA3 Electric Drive System 320kW 2 Siemens ELFA2 Electric Drive System 160kW	According to manufacturer: Available with ZF AVE130 In-wheel motor center drive axle; 525kWh battery storage; 153 miles range
		Siemens ELFA2 Electric Drive System 320kW	Also available with the ZF AVE130 In-Wheel Motor Center Drive Axle
		Dana TM4 SUMO HD	Total capacity 71 passengers.
	41	1 BAE Systems HDS200	According to manufacturer: Up to 564 kWh battery storage; total capacity 68 passengers.
			According to manufacturer: On or off road; 81,000 GCWR; regenerative braking; up to 25mph and 24 hrs w/o charge; off- and on-board charging
		Dana TM4 SUMO MD HV3500 350kW	According to manufacturer: 154kW (207hp) continuous power rating with 265kW peak power. 141 kWh battery storage capacity with estimated 100 mile range, or 282 kWh battery storage capacity with 200 mile estimated.
		Dana TM4 SUMO MD HV3500 350kW Meritor 14Xe e-axles	According to manufacturer: 259kW (347hp) continuous power rating with 350kW peak power. 141 kWh battery storage capacity with estimated 100 mile range, or 282 kWh battery storage capacity with 200 mile estimated According to manufacturer: Meritor 14Xe e-axles available in 400kW (536hp) power rating; 400kWh battery storage capacity; Range of 80-100 miles including 1,100 bin cycles when used with an automated side loader or
		Meritor 14Xe e-axles	According to manufacturer: Meritor 14Xe e-axies available in 400kW (536hp) power rating with 500kW (670hp) peak power; 400kWh battery storage capacity; estimated 150 miles range.
	29		According to manufacturer: 338HP peak; 220 kWh battery storage; up to 125 miles range
	29	Proterra Dual independent 205kW motors Proterra ProDrive™ 250kW permane	According to manufacturer: 550HP peak; 440 kWh battery storage; up to 240 miles range
			According to manufacturer: 338HP peak; 220 kWh battery storage; up to 120 miles range
			According to manufacturer: 550HP peak; 440 kWh battery storage; up to 232 miles range
		Proterra ProDrive™ 250kW permanent magnet motor Proterra Dual independe Phoenix Motorcars E200 (TM4) 240kW electric motor	According to manufacturer: 550HP peak; 660 kWh battery storage; up to 329 miles range According to manufacturer: Equipped with Phoenix Motorcars Phoenix E200 (TM4) 240kW electric motor; up to 90 miles range
		Phoenix Motorcars E200 (TM4) 240kW electric motor Phoenix Motorcars E200 (TM4) 240kW electric motor	According to manufacturer: Equipped with Phoenix Motorcars Phoenix E200 (TM4) 240kW electric motor; up to 90 miles range According to manufacturer: Equipped with Phoenix Motorcars Phoenix E200 (TM4) 240kW electric motor; up to 150 miles range
	47 or 8 wheelchairs	Motiv Power Systems EPIC 5, EPIC 6 250kW electric motor	According to manufacturer: 127 kWh battery; 100 miles range
	81		According to manufacturer: 155 kWh battery; up to 120 miles range
	Up to 34	Motiv Power Systems 150kW electric motor	
			According to manufacturer: Utilimaster, Aeromaster FT 1261 Walk-In chassis; 35.84 kWh battery; 75 mile range
		US Hybrid Internal permanent magnet 300kW	According to manufacturer: International, ProStar Day Cab chassis; 160-240 kWh battery; up to 80 miles range
		and the second of the second o	Workhorse P42 or Freightliner Custom Chassis MT-45 chassis; 125 miles total range (19 electric-only)
		Hydrogenics HD30 PEM fuel cell	Fldorado Aero Flite 29 (Ford F550) chassis: 125 miles total range (15 electric-only)
		5 Hydrogenics HD30 PEM fuel cell	Eldorado Aero Elite 29 (Ford F550) chassis; 125 miles total range (15 electric-only) Eldorado Aero Elite 32 (Ford F550) chassis; 200 miles total range (15 electric-only)
			Eldorado Aero Elite 29 (Ford F550) chassis; 125 miles total range (15 electric-only) Eldorado Aero Elite 32 (Ford F550) chassis; 200 miles total range (15 electric-only) International, ProStar Day Cab chassis. 280 miles total range
	29	5 Hydrogenics HD30 PEM fuel cell 9 Hydrogenics HD30 PEM fuel cell	Eldorado Aero Elite 32 (Ford F550) chassis; 200 miles total range (15 electric-only)
	29	Hydrogenics HD30 PEM fuel cell Hydrogenics HD30 PEM fuel cell US Hybrid PC80 FCe80 PEM fuel cell	Eldorado Aero Elite 32 (Ford F550) chassis; 200 miles total range (15 electric-only)